

Appl. No. 10/091,142  
Amdt. dated Nov. 07, 2003  
Reply to Office action of Oct. 08, 2003

**REMARKS/ARGUMENTS**

In the specification, at pages 1-5, the matter has been deleted and added for enabling a clear and concise language.

In the specification, at page 4, lines 142-155, the paragraph has been deleted.

In the Abstract of the disclosure, lines 9-19, the paragraph has been deleted and replaced by a new paragraph.

Claim 1 has been canceled. Claim 2 has been added in this application.

The examiner has rejected the claim 1 as being anticipated by either one Schwab or Roosevelt et al. for the following reasons that:

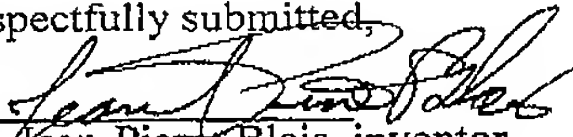
Schwab shows a conical filter element attached to a generally square cooling system duct opening with a frame and fastening means, Roosevelt et al. shows a conical filter attached to the circular opening of an air treatment duct using a bead retainer, and that the additional references disclose conically shaped air filters.

In view of the examiner's claim rejection, applicant retains the right to present a new claim for showing that the references applied against the claim in this application is different from them, because Schwab and Roosevelt do not disclose a filter that fits with any shape of duct inlet by the use of spring means.

Applicant respectfully requests that a Notice of Allowance be issued  
in this case.

Respectfully submitted,

by



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**[DEVICE] FILTER [USED TO] FOR [PURIFY] PURIFYING AIR  
AND KEEPING CLEANLY THE DUCTS OF A HOT AIR SYSTEM  
OR CENTRAL AIR EXCHANGER.**

**BACKGROUND OF THE INVENTION:**

**1) Field of the invention:**

The present invention relates to a device [used to] for [purify]  
purifying air and [keep] keeping cleanly the ducts of a hot air system or  
central air exchanger [.] , and more particularly to a filter that fits with any  
shape of duct inlet by the use of a spring means.

**2) Description of the related art:**

A search of prior art records has unveiled the following United  
States patents:

1. [No] US 4,804,392 issued in 1989 to Spengler;
2. [No] US 4,552,657 issued in 1985 to Ogawa; and
3. [No] US 4,666,531 issued in 1987 to Minard.

The patents to Spengler, Ogawa and Minard are probably the most  
relevant.

[As can be seen, the patents do not show a device used to purify air

and keep cleanly the duct of hot air system or central air exchanger, which is installed into the duct inlet inhaling air of the indoor from the house.]

It is known to use different conical filters in order to purify air and keep cleanly the ducts of a hot air system or central air exchanger.

At present, one disadvantage of using conical filters is that none of them fits with any shape of duct inlet.

The gist of the invention is therefore to provide a [device] filter [adapted for] that fits with any shape of duct inlet for hot air system or central air exchanger, and which allowing to purify air and keep cleanly the ducts.

#### **SUMMARY OF THE INVENTION:**

[The present invention shows a device] In its simplest form, the use of the filter [having the shape of a cone, which can be installed] of this invention is that it is mounted [into the square, rectangular or round] inside a duct inlet inhaling air of the indoor from the house, and which [a fixing means is adapted] fits with any [to the] shape of [round, square or rectangular] duct inlet [.] by the use of a spring means.

#### **BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S):**

Figure 1 is a perspective view of [device having the shape of cone installed] a filter that is mounted [into the round] inside a duct inlet inhaling air of the indoor from the house, and which [a fixing means is adapted] fits with [to] the round shape of [round] duct inlet [.] by the use of a spring means.

Figure 2 is [a perspective] an exploded view [of device having the shape of cone installed into the round duct inlet inhaling air of the indoor from the house, and which the fixing means is adapted to the shape of round duct inlet] thereof.

Figure 3 is a perspective view of [device] same filter [having the shape of cone installed] that is mounted [into the square] inside a duct inlet inhaling air of the indoor from the house, and which [a fixing means is adapted] fits with [to] the square shape of [square] duct inlet [.] by the use of a spring means.

Figure 4 is [a perspective] an exploded view [of device having the shape of cone installed into the square duct inlet inhaling air of the indoor from the house, and which the fixing means is adapted to the shape of square duct inlet] thereof.

Figure 5 is a perspective view of [device having the shape of cone

installed] same filter that is mounted [into the rectangular] inside a duct inlet inhaling air of the indoor from the house, and which [a fixing means is adapted] fits with [to] the rectangular shape of [rectangular] duct inlet [.] by the use of a spring means.

Figure 6 is [a perspective] an exploded view [of device having the shape of cone installed into the rectangular duct inlet inhaling air of the indoor from the house, and which the fixing means is adapted to the shape of rectangular duct inlet] thereof.

#### **DETAILED DESCRIPTION OF THE INVENTION:**

[As shown in] Referring to the figures 1[, 2, 3, 4, 5 and] to 6, it may be seen that the [a device] filter (1) of the present invention is used [to purify air and keep] for purifying air and keeping cleanly the ducts of a hot air system or central air exchanger, [is made up of a filter (1) having the shape of a cone, which can be installed] which is mounted [into the square, rectangular or round] inside a duct inlet inhaling air of the indoor from the house, and which [a fixing means is adapted] fits with any [to the] shape of [round, square or rectangular] duct inlet [.] by the use of a spring means (2)(3).

[As shown in figures 1 and 2, the filter (1) is installed into the round

duct inlet inhaling air of the indoor from the house, and which a fixing means (2) is adapted to the shape of round duct inlet. As shown in figures 3 and 4, the filter (1) is installed into the square duct inlet inhaling air of the indoor from the house, and which a fixing means (3) is adapted to the shape of square duct inlet. As shown in figures 5 and 6, the filter (1) is installed into the rectangular duct inlet inhaling air of the indoor from the house, and which the fixing means (3) is adapted to the shape of rectangular duct inlet.]